

# ABSTRACT OF THE DISCLOSURE

A process for producing aldehydes, and/or carboxylic acids is described, in which a primary alcohol, especially a carbohydrate, is oxidized using a catalytic amount of a nitrosonium compound obtained by oxidizing a nitroxyl compound in the presence of an enzyme compound capable of oxidation. Further described are oxidized carbohydrates containing at least 1 cyclic monosaccharide chain group carrying a carbaldehyde group per 25 monosaccharide units and per molecule.